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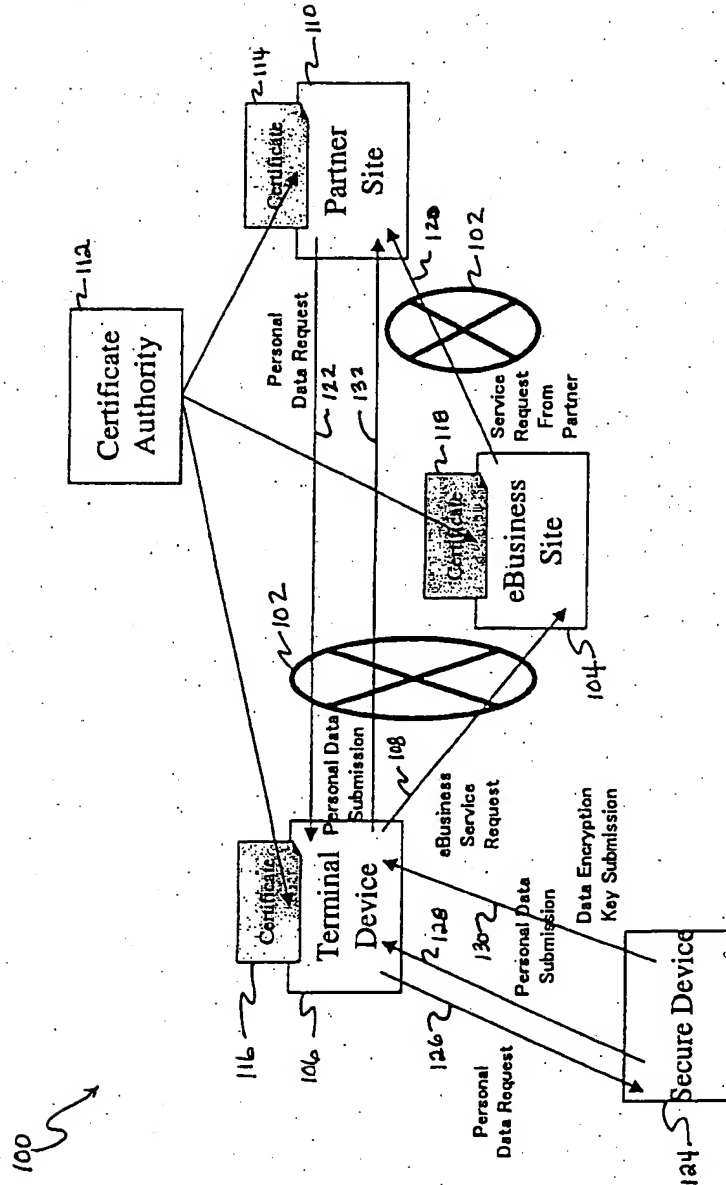


FIG. 1

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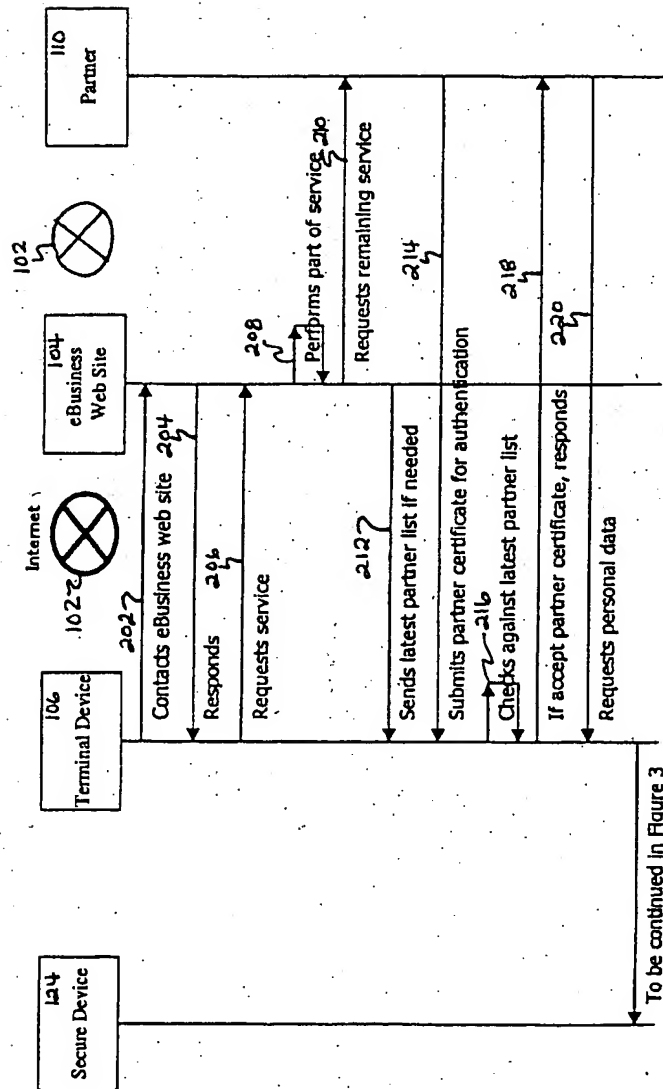


FIG. 2

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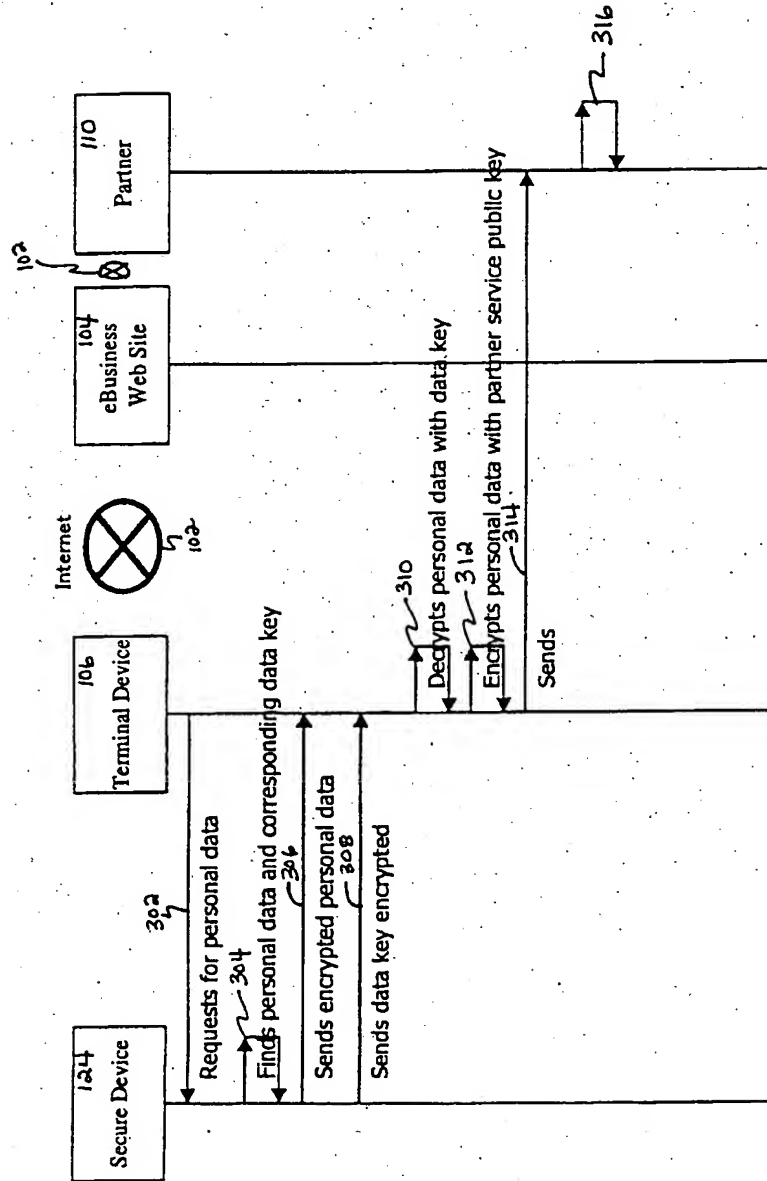


FIG. 3

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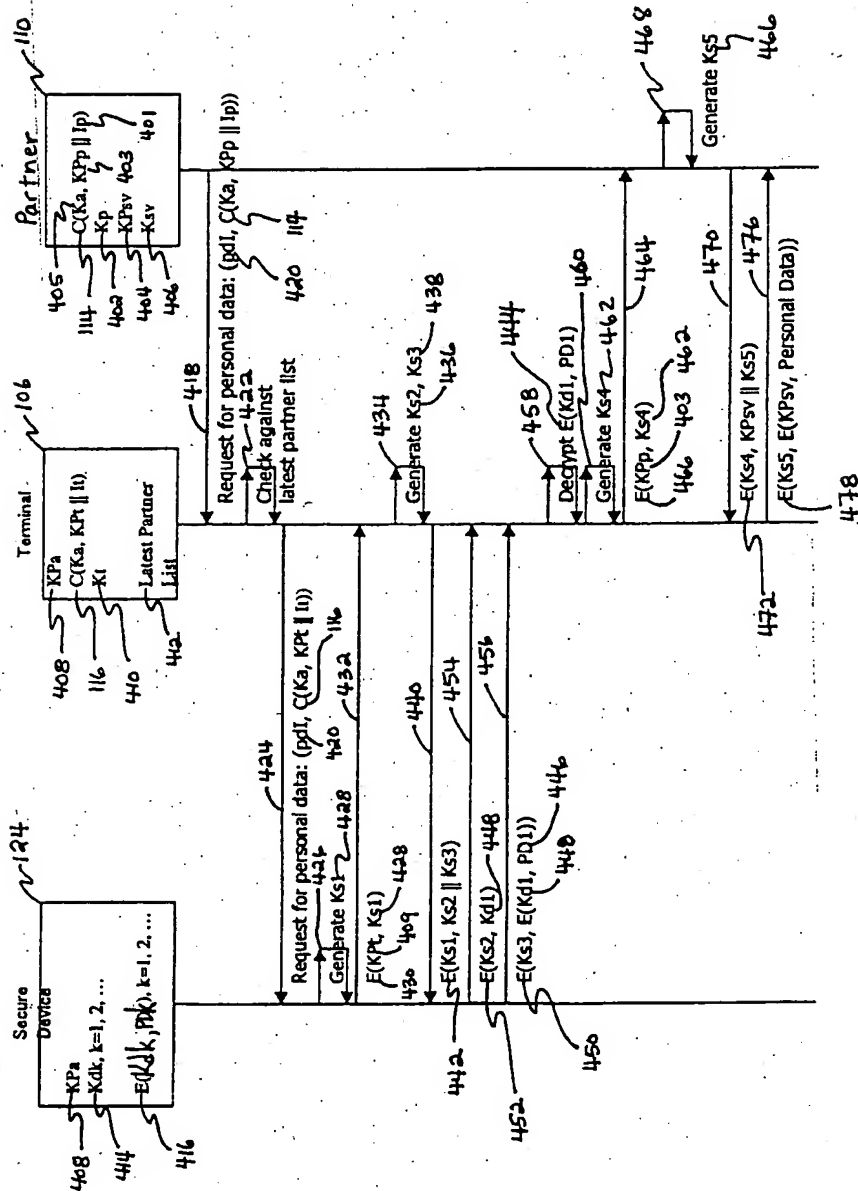


FIG. 4

Name	Expression	Description
Encryption	$E(K, D)$	The result of encrypting information "D" with key "K"
Hash	$H(D)$	The result of hashing information "D"
Concatenation	$A \parallel B$	Concatenation of "A" and "B"
CA Private Key	K_a	A private key used by a CA to sign certificate
CA Public Key	KP_a	A public key corresponding to K_a
Partner Information	I_p	The information pertaining to the partner
Partner Private Key	K_p	A private key owned by the partner
Partner Public Key	KP_p	A public key corresponding to K_p
Partner Certificate	$C(K_a, KP_p \parallel I_p)$	X.509 certificate for the partner
Partner Service Private Key	K_{sv}	A private key owned by the partner service
Partner Service Public Key	KP_{sv}	A public key corresponding to K_{sv}
Terminal Information	I_t	The information pertaining to the partner
Terminal Private Key	K_t	A private key owned by the terminal
Terminal Public Key	KP_t	A public key corresponding to K_t
Terminal Certificate	$C(K_a, KP_t \parallel I_t)$	X.509 certificate for the terminal
Personal Data	$PDK, k=1, 2, \dots$	Personal data for eBusiness service transaction
Personal Data Encryption Key	$Kdk, k=1, 2, \dots$	A symmetric key to encrypt personal data (stored in the TRM of the PIN-SMMC)
Encrypted Personal Data	$E(PDK, Kdk), k=1, 2, \dots$	Personal data stored in an encrypted format in the flash memory portion of the PIN-SMMC
Personal Data information	$p d I$	Information related to identifying the appropriate personal data to submit to the partner site
Session Key	$Ksk, k=1, 2, \dots$	A symmetric key generated in real-time to encrypt a communication session

FIG. 5

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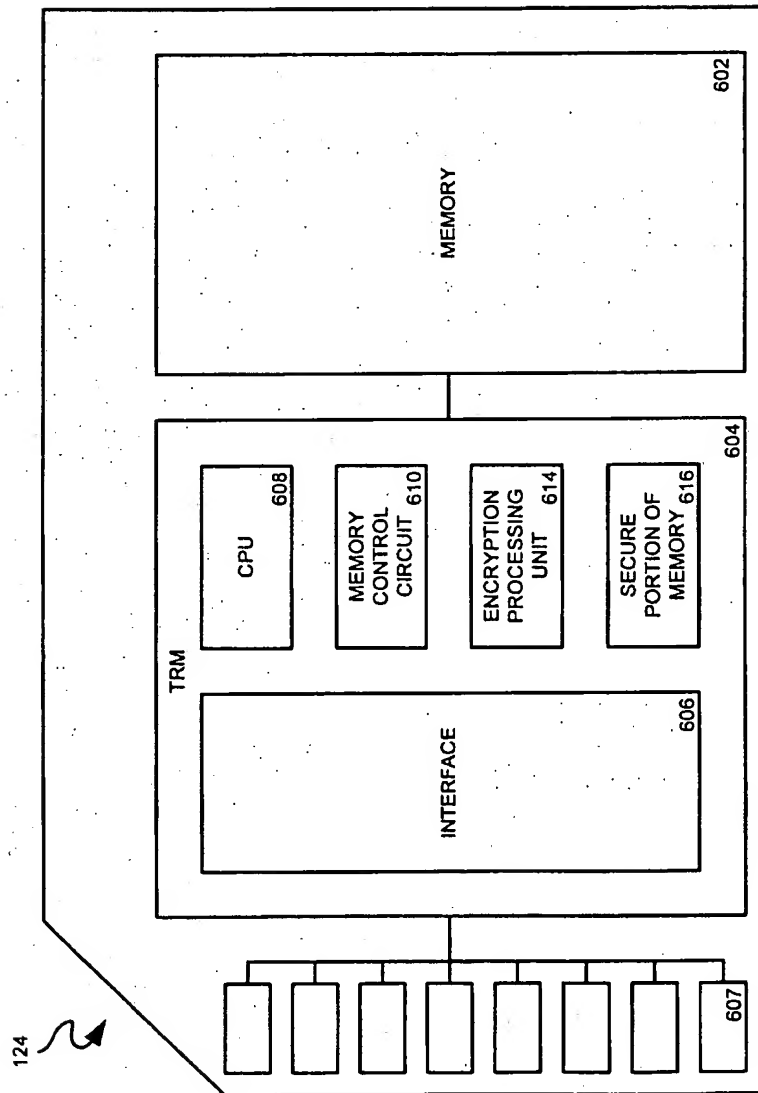


FIG. 6

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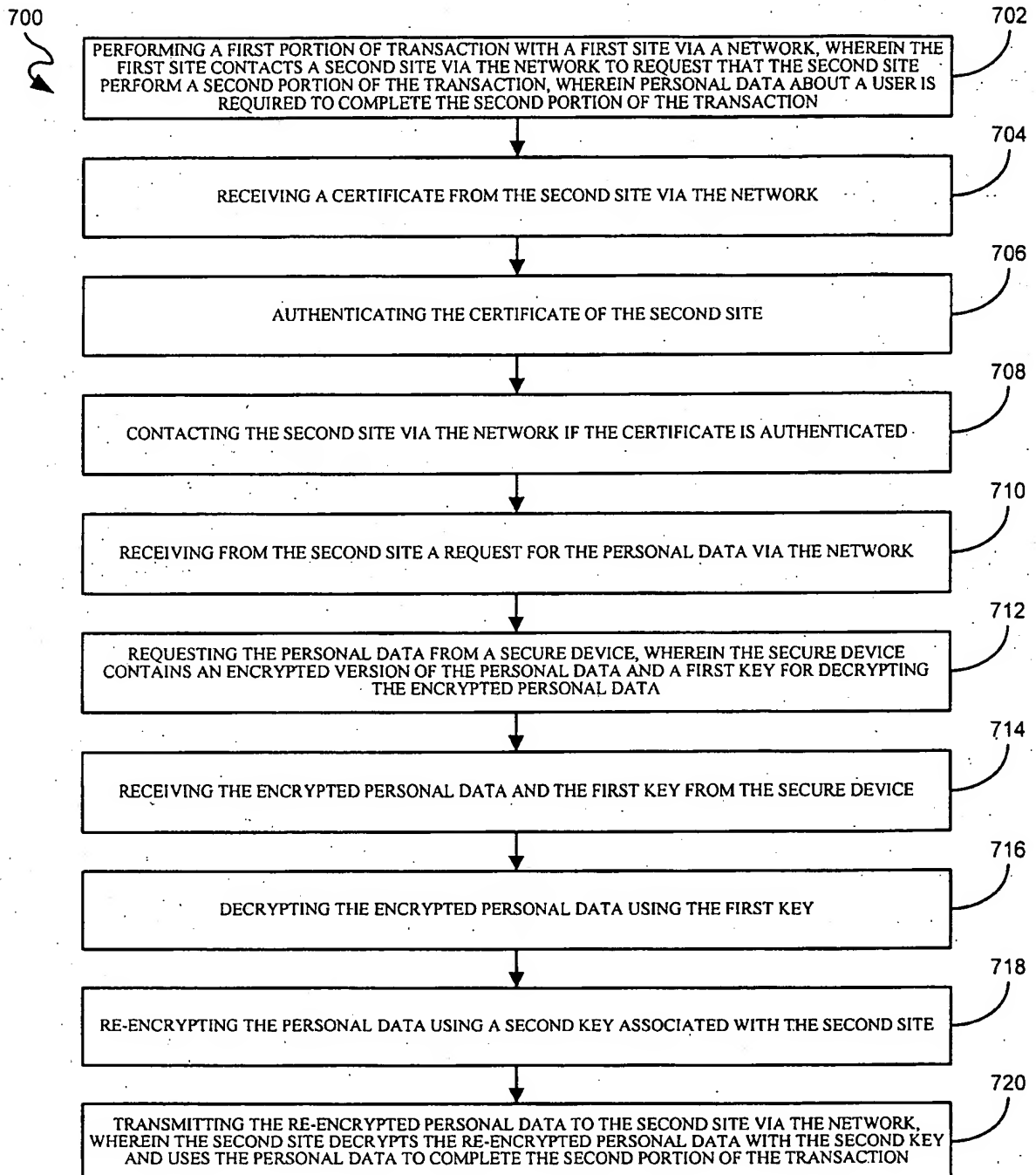


FIG. 7

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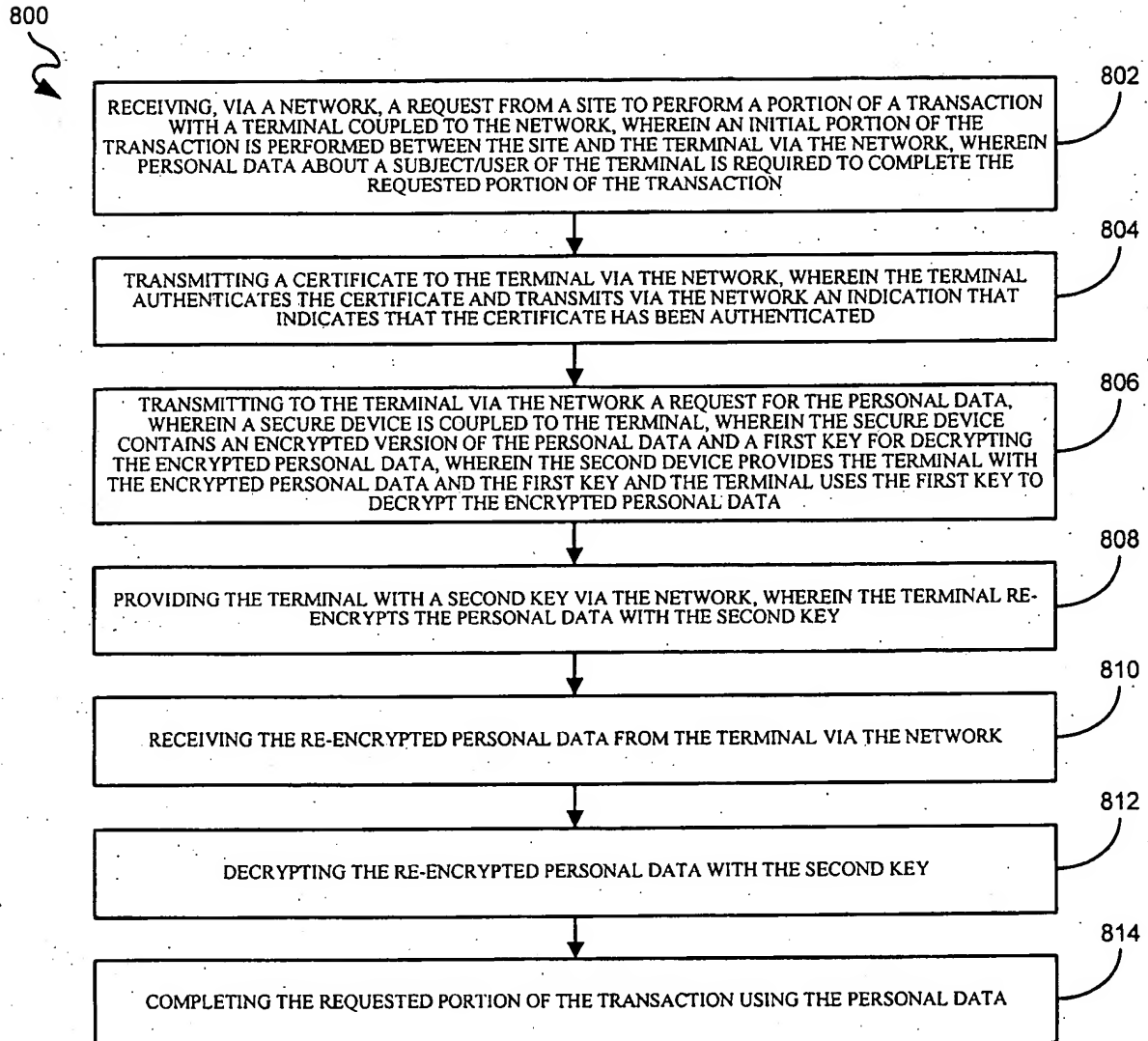


FIG. 8

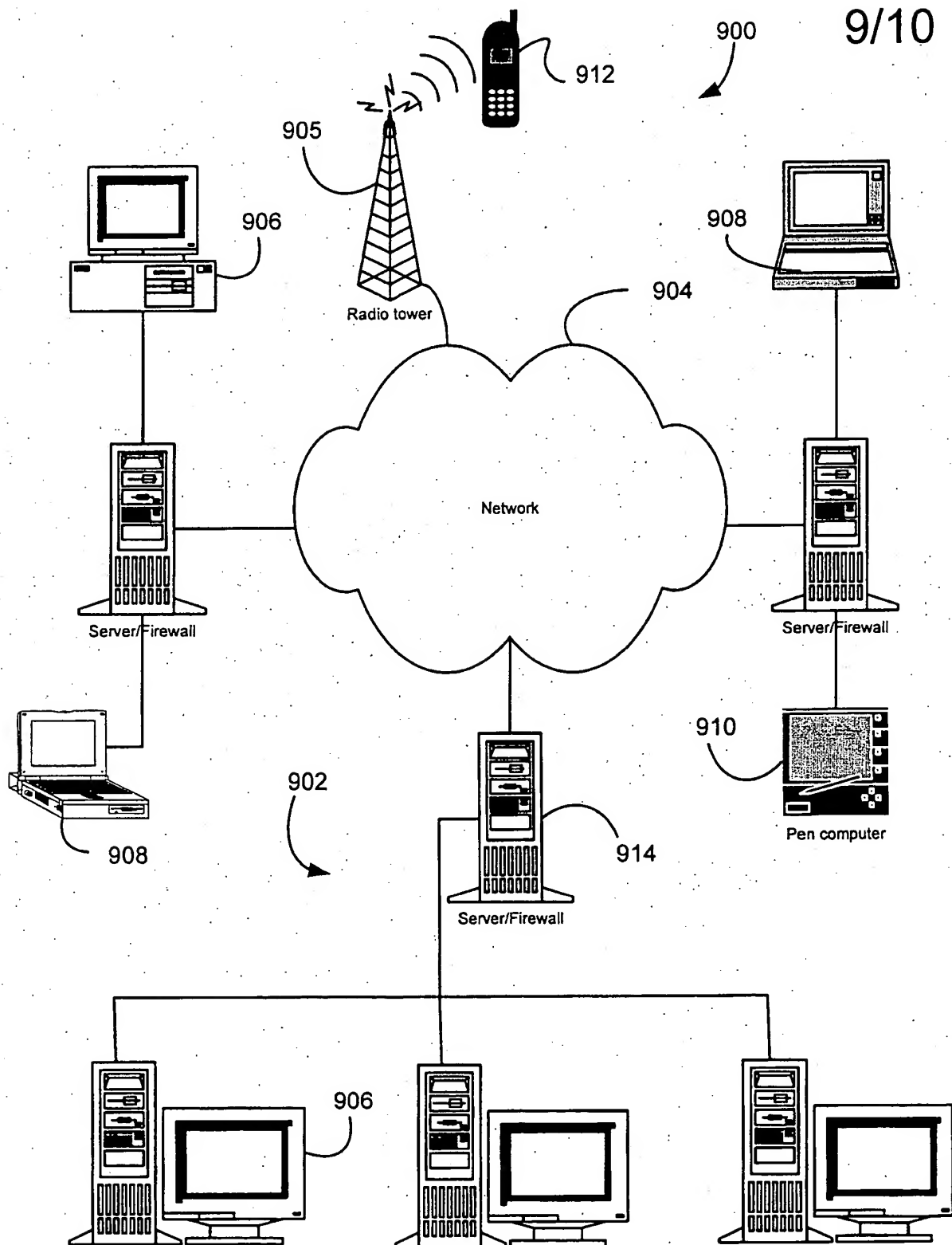


FIG. 9

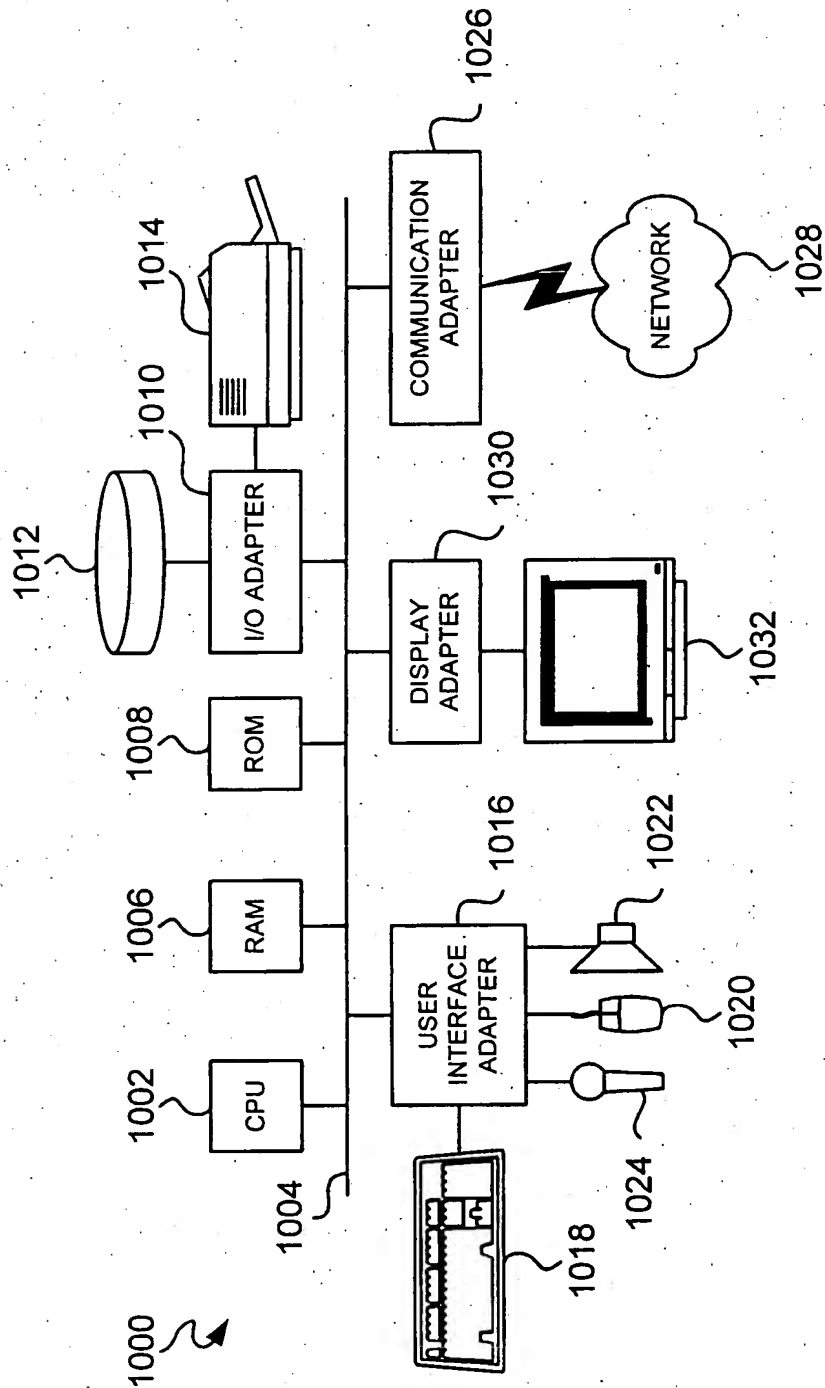


FIG. 10